# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 8.0.2 |
| Input Device: | Carousel | Date: | 02/01/2019 01:03 PM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 01/02/2019 10:47 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

| | | | |
|---|---|---|---|
| Bead Product: | CST Setup Beads | Part #: | 910859 |
| Lot ID: | 72756 | Expiration Date: | 10/31/2019 |
| Bead Lot Information: | Available | | |

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 125380 | 0 | 2.39 | 125481 | 2.35 |
| Blue | F | SSC | 125000 | 123066 | -2 | 3.92 | 123848 | 3.88 |
| Blue | E | FITC | 16694 | 16415 | -2 | 3.92 | 383 | 22.09 |
| Blue | D | PE | 32792 | 32094 | -3 | 3.24 | 710 | 16.30 |
| Blue | B | PerCP-Cy5-5 | 44451 | 43946 | -2 | 4.82 | 1203 | 23.88 |
| Blue | A | PE-Cy7 | 33645 | 33980 | 0 | 7.12 | 614 | 47.85 |
| Red | C | APC | 47008 | 46323 | -2 | 3.02 | 1790 | 13.66 |
| Red | A | APC-Cy7 | 32298 | 31697 | -2 | 3.00 | 793 | 14.39 |
| Violet | B | V450 | 8961 | 8695 | -3 | 4.91 | 484 | 14.54 |
| Violet | A | V500 | 32726 | 31537 | -4 | 4.64 | 762 | 11.44 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 20422 | 4.49 | 610 | -3 | N/A | N/A | Pass |
| Blue | F | SSC | 55763 | 3.40 | 578 | 10 | N/A | N/A | Pass |
| Blue | E | FITC | 63 | 74.13 | 566 | 3 | 0.0154 | 157 | Pass |
| Blue | D | PE | 141 | 58.36 | 570 | 4 | 0.1388 | 328 | Pass |
| Blue | B | PerCP-Cy5-5 | 222 | 58.10 | 677 | 6 | 0.0068 | 53 | Pass |
| Blue | A | PE-Cy7 | 121 | 120.80 | 734 | 8 | 0.0091 | 32 | Pass |
| Red | C | APC | 410 | 29.12 | 614 | 1 | 0.0183 | 121 | Pass |
| Red | A | APC-Cy7 | 195 | 32.43 | 586 | 1 | 0.0044 | 1034 | Pass |
| Violet | B | V450 | 71 | 70.91 | 487 | 1 | 0.0468 | 2536 | Pass |
| Violet | A | V500 | 108 | 39.54 | 496 | 0 | 0.0198 | 1113 | Pass |

## Specifications

| | |
|---|---|
| PMTV Delta from baseline: | 50 (BD) |
| Violet Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Blue Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Red Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |

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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.98 - 71.98 | N/A | N/A | -32.34 | -31.96 | 1.03 |
| Blue | 20.35 | 16.27 - 24.41 | 1.26 | 0.99 - 1.49 | 0.00 | 0.00 | 1.50 |
| Red | 16.41 | 13.60 - 20.40 | N/A | N/A | 29.15 | 29.55 | 1.22 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.91

## Threshold

Threshold (FSC): 10204

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.60
Spec.: 3.80 - 4.00

Comments